

## CLAIMS:

1. A device for reducing noise in image signals, the image signals passing through a temporal recursive filter whose feedback factor is a function of movement in the images represented by the image signals, wherein, in order to form the feedback factor (K) for the respective current image, a first (P) and a second (L) factor are combined in such a way that the smaller one of the factors (L, P) substantially determines the feedback factor (K), in that the first factor (P) is formed from the feedback factor (O) of the preceding image, and in that the second factor (L) is calculated from the difference between the preceding image (Y) and the current image (X).

10 2. The device as claimed in claim 1, wherein the respectively smaller one of the factors (L, P) serves as feedback factor (K).

3. The device as claimed in claims 1 or 2, wherein the first factor (P) is formed by dividing a constant by a further constant minus the feedback factor (O) of the preceding image.

4. The device as claimed in claim 3, wherein the first factor (P) is calculated as in the equation  $P=1/(2-O)$ , O being the feedback factor of the preceding image.

20 5. The device as claimed in one of the preceding claims, wherein the second factor (L) is formed by dividing a limiting value (E) by the absolute value of the difference between the preceding (Y) and the current (X) image.

25 6. The device as claimed in claim 5, wherein the second factor (L) is formed by means of the equation  $L=E/[X-Y]$ , X being the current image, Y the preceding image and E the limiting value.